<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/567, 403 A_
Source: _IFWO_
Date Processed by STIC: _07/05/2006_

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 07/05/2006
PATENT APPLICATION: US/10/567,403A   TIME: 08:18:48

Input Set : **A:\8830-390US1.txt**
Output Set: **N:\CRF4\07052006\J567403A.raw**

```
 3 <110> APPLICANT: CSS- Albachem Limited
 4        Cotton, Graham
 6 <120> TITLE OF INVENTION: Ligation Method
 8 <130> FILE REFERENCE: 08830-0390US1 (47596-221330)
10 <140> CURRENT APPLICATION NUMBER: US 10/567,403A
11 <141> CURRENT FILING DATE: 2006-02-03
13 <150> PRIOR APPLICATION NUMBER: GB 0318276.3
14 <151> PRIOR FILING DATE: 2003-08-05
16 <150> PRIOR APPLICATION NUMBER: GB 0320122.5
17 <151> PRIOR FILING DATE: 2003-08-28
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 27
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Synthetic C-terminal thioester peptide
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (1)..(1)
35 <223> OTHER INFORMATION: Xaa may be alanine or arginine
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <222> LOCATION: (7)..(7)
40 <223> OTHER INFORMATION: Xaa may be alanine or arginine
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <222> LOCATION: (9)..(9)
45 <223> OTHER INFORMATION: (Me)3
47 <220> FEATURE:
48 <221> NAME/KEY: misc_feature
49 <222> LOCATION: (15)..(15)
50 <223> OTHER INFORMATION: Xaa may be alanine or arginine
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <222> LOCATION: (21)..(21)
55 <223> OTHER INFORMATION: Xaa may be alanine or arginine
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (24)..(24)
60 <223> OTHER INFORMATION: Xaa may be alanine or arginine
62 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 07/05/2006
PATENT APPLICATION: US/10/567,403A   TIME: 08:18:48

Input Set : A:\8830-390US1.txt
Output Set: N:\CRF4\07052006\J567403A.raw

```
 63 <221> NAME/KEY: misc_feature
 64 <222> LOCATION: (25)..(25)
 65 <223> OTHER INFORMATION: Xaa may be alanine or arginine
 67 <400> SEQUENCE: 1
W--> 69 Xaa Arg Thr Lys Gln Thr Xaa Arg Lys Ser Thr Gly Gly Lys Xaa Pro
 70 1               5                   10                  15
 73 Arg Lys Gln Leu Xaa Thr Lys Xaa Xaa Arg Lys
 74              20              25
 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 102
 79 <212> TYPE: PRT
 80 <213> ORGANISM: Homo sapiens
 82 <400> SEQUENCE: 2
 84 His Pro Trp Phe Phe Gly Lys Ile Pro Arg Ala Lys Ala Glu Glu Met
 85 1               5                   10                  15
 88 Leu Ser Lys Gln Arg His Asp Gly Ala Phe Leu Ile Arg Glu Ser Glu
 89              20                  25                  30
 92 Ser Ala Pro Gly Asp Phe Ser Leu Ser Val Lys Phe Gly Asn Asp Val
 93           35                  40                  45
 96 Gln His Phe Lys Val Leu Arg Asp Gly Ala Gly Lys Tyr Phe Leu Trp
 97      50                  55                  60
100 Val Val Lys Phe Asn Ser Leu Asn Glu Leu Val Asp Tyr His Arg Ser
101 65                  70                  75                  80
104 Thr Ser Val Ser Arg Asn Gln Gln Ile Phe Leu Arg Asp Ile Glu Gln
105              85                  90                  95
108 Val Pro Gln Gln Pro Thr
109              100
112 <210> SEQ ID NO: 3
113 <211> LENGTH: 36
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Purified and lyophilised Grb2-SH2 C terminal hydrazide
treated
119      with protease Lys-C in 100mM ammonium bicarbonate buffer
121 <400> SEQUENCE: 3
123 Phe Asn Ser Leu Asn Glu Leu Val Asp Tyr His Arg Ser Thr Ser Val
124 1               5                   10                  15
127 Ser Arg Asn Gln Gln Ile Phe Leu Arg Asp Ile Glu Gln Val Pro Gln
128              20                  25                  30
131 Gln Pro Thr Gly
132           35
135 <210> SEQ ID NO: 4
136 <211> LENGTH: 392
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
140 <400> SEQUENCE: 4
142 Met Lys Ile Glu Glu Gly Lys Leu Val Ile Trp Ile Asn Gly Asp Lys
143 1               5                   10                  15
146 Gly Tyr Asn Gly Leu Ala Glu Val Gly Lys Lys Phe Glu Lys Asp Thr
```

RAW SEQUENCE LISTING   DATE: 07/05/2006
PATENT APPLICATION: US/10/567,403A   TIME: 08:18:48

Input Set : A:\8830-390US1.txt
Output Set: N:\CRF4\07052006\J567403A.raw

```
147                20              25              30
150 Gly Ile Lys Val Thr Val Glu His Pro Asp Lys Leu Glu Glu Lys Phe
151         35              40              45
154 Pro Gln Val Ala Ala Thr Gly Asp Gly Pro Asp Ile Ile Phe Trp Ala
155         50              55              60
158 His Asp Arg Phe Gly Gly Tyr Ala Gln Ser Gly Leu Leu Ala Glu Ile
159 65              70              75              80
162 Thr Pro Asp Lys Ala Phe Gln Asp Lys Leu Tyr Pro Phe Thr Trp Asp
163             85              90              95
166 Ala Val Arg Tyr Asn Gly Lys Leu Ile Ala Tyr Pro Ile Ala Val Glu
167         100             105             110
170 Ala Leu Ser Leu Ile Tyr Asn Lys Asp Leu Leu Pro Asn Pro Pro Lys
171         115             120             125
174 Thr Trp Glu Glu Ile Pro Ala Leu Asp Lys Glu Leu Lys Ala Lys Gly
175         130             135             140
178 Lys Ser Ala Leu Met Phe Asn Leu Gln Glu Pro Tyr Phe Thr Trp Pro
179 145             150             155             160
182 Leu Ile Ala Ala Asp Gly Gly Tyr Ala Phe Lys Tyr Glu Asn Gly Lys
183             165             170             175
186 Tyr Asp Ile Lys Asp Val Gly Val Asp Asn Ala Gly Ala Lys Ala Gly
187         180             185             190
190 Leu Thr Phe Leu Val Asp Leu Ile Lys Asn Lys His Met Asn Ala Asp
191         195             200             205
194 Thr Asp Tyr Ser Ile Ala Glu Ala Ala Phe Asn Lys Gly Glu Thr Ala
195     210             215             220
198 Met Thr Ile Asn Gly Pro Trp Ala Trp Ser Asn Ile Asp Thr Ser Lys
199 225             230             235             240
202 Val Asn Tyr Gly Val Thr Val Leu Pro Thr Phe Lys Gly Gln Pro Ser
203             245             250             255
206 Lys Pro Phe Val Gly Val Leu Ser Ala Gly Ile Asn Ala Ala Ser Pro
207         260             265             270
210 Asn Lys Glu Leu Ala Lys Glu Phe Leu Glu Asn Tyr Leu Leu Thr Asp
211         275             280             285
214 Glu Gly Leu Glu Ala Val Asn Lys Asp Lys Pro Leu Gly Ala Val Ala
215     290             295             300
218 Leu Lys Ser Tyr Glu Glu Glu Leu Ala Lys Asp Pro Arg Ile Ala Ala
219 305             310             315             320
222 Thr Met Glu Asn Ala Gln Lys Gly Glu Ile Met Pro Asn Ile Pro Gln
223             325             330             335
226 Met Ser Ala Phe Trp Tyr Ala Val Arg Thr Ala Val Ile Asn Ala Ala
227         340             345             350
230 Ser Gly Arg Gln Thr Val Asp Glu Ala Leu Lys Asp Ala Gln Thr Asn
231         355             360             365
234 Ser Ser Ser Asn Asn Asn Asn Asn Asn Asn Asn Asn Leu Gly Ile
235     370             375             380
238 Glu Gly Arg Gly Thr Leu Glu Gly
239 385             390
242 <210> SEQ ID NO: 5
243 <211> LENGTH: 5
```

```
244 <212> TYPE: PRT
245 <213> ORGANISM: Artificial sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Small synthetic C-terminal hydrazide peptide
250 <400> SEQUENCE: 5
252 Ser Leu Ala Tyr Gly
253 1               5
256 <210> SEQ ID NO: 6
257 <211> LENGTH: 11
258 <212> TYPE: PRT
259 <213> ORGANISM: Artificial sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Synthetic peptide corresponding to the c-myc epitope
sequence was
263        synthesised GEQKLISEED-NH2 whereby pyruvic acid was coupled to
264        the amino terminus of the peptide as the last step of the
265        assembly
268 <220> FEATURE:
269 <221> NAME/KEY: MOD_RES
270 <222> LOCATION: (11)..(11)
271 <223> OTHER INFORMATION: AMIDATION
273 <400> SEQUENCE: 6
275 Gly Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
276 1               5                   10
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/05/2006
PATENT APPLICATION: US/10/567,403A   TIME: 08:18:49

Input Set : A:\8830-390US1.txt
Output Set: N:\CRF4\07052006\J567403A.raw

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:1; Xaa Pos. 1,7,15,21,24,25

VERIFICATION SUMMARY   DATE: 07/05/2006
PATENT APPLICATION: US/10/567,403A   TIME: 08:18:49

Input Set : **A:\8830-390US1.txt**
Output Set: **N:\CRF4\07052006\J567403A.raw**

L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1